

Title (en)
CHILLER SUCTION FLOW LIMITING WITH INPUT POWER OR MOTOR CURRENT CONTROL

Title (de)
KÜHLMITTELANSAUGSTROMBEGRENZUNG MIT EINGANGSLEISTUNGS- ODER MOTORSTROMREGELUNG

Title (fr)
LIMITATION DE DÉBIT D'ASPIRATION DE REFROIDISSEUR AVEC COMMANDE DE PUISSANCE D'ENTRÉE OU DE COURANT DE MOTEUR

Publication
EP 3803234 A4 20220504 (EN)

Application
EP 18921213 A 20180530

Priority
CN 2018089063 W 20180530

Abstract (en)
[origin: WO2019227351A1] A chiller (22) includes an evaporator (46), a compressor (48) including a prime mover (84), a first pressure sensor (86) that detects a first pressure in the evaporator (46), a second pressure sensor (88) that detects a second pressure in a condenser (50), and a controller (100). The controller (100) determines a predicted energy level of the compressor (48) based on the first pressure and the second pressure, the predicted energy level associated with liquid droplet flow into the compressor (48), compares the predicted energy level to an operating energy level, and modifies the at least one of the input power and the input current to the prime mover (84) based on the comparison satisfying a modification condition.

IPC 8 full level
F25B 49/02 (2006.01)

CPC (source: CN EP KR US)
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Citation (search report)

- [A] US 2009095002 A1 20090416 - MCSWEENEY DANIEL L [US], et al
- [A] WO 2009058975 A1 20090507 - JOHNSON CONTROLS TECH CO [US], et al
- [A] EP 2844931 A1 20150311 - JOHNSON CONTROLS TECH CO [US]
- See references of WO 2019227351A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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